

# Definition of Control and Signal Regions

Region	$M_{\ell\ell}$ cut (Gev/ $c^2$ )	$(\cancel{E}_T)$ cut (GeV)	$N_{jet}$ cut
Region0	$M_{\ell\ell} > 20$	$\cancel{E}_T < 10$	—
Region1	$76 < M_{\ell\ell} < 106$	$\cancel{E}_T > 15$	$N_{jet} \leq 1$
Region2	$76 < M_{\ell\ell} < 106$	$\cancel{E}_T > 15$	$N_{jet} \geq 2$
Region3	$20 < M_{\ell\ell} < 76$ or $M_{\ell\ell} > 106$	$\cancel{E}_T < 10$	$N_{jet} \leq 1$
Region4	$20 < M_{\ell\ell} < 76$ or $M_{\ell\ell} > 106$	$\cancel{E}_T < 10$	$N_{jet} \geq 2$
Region5	$76 < M_{\ell\ell} < 106$	$\cancel{E}_T < 10$	$N_{jet} \leq 1$
Region6	$76 < M_{\ell\ell} < 106$	$\cancel{E}_T < 10$	$N_{jet} \geq 2$
Region7	$20 < M_{\ell\ell} < 76$ or $M_{\ell\ell} > 106$	$\cancel{E}_T > 15$	$N_{jet} \leq 1$
Region8	$20 < M_{\ell\ell} < 76$ or $M_{\ell\ell} > 106$	$\cancel{E}_T > 15$	$N_{jet} \geq 2$
Region9	$20 < M_{\ell\ell} < 76$ or $M_{\ell\ell} > 106$	$\cancel{E}_T > 20$	$N_{jet} \leq 1$
Region10	$76 < M_{\ell\ell} < 106$	—	—
Region11	$M_{\ell\ell} > 20$	—	—